



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 10, 2019

Bill Washburn
Registration Manager
Helena Agri-Enterprises
225 Schilling Boulevard, Suite 300
Collierville, TN 38017

Subject: Registration Review Label Mitigation for Prodiamine
Product Name: Pro-Mate Barricade 0.435% Plus Fertilizer
EPA Registration Number: 5905-536
Application Dates: 7/9/2019
Decision Numbers: 552897

Dear Mr. Washburn:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Prodiamine Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions about this letter, please contact Darius Stanton by phone at 703-347-0433, or via email at Stanton.darius@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington".

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

PRODIAMINE	GROUP	3	HERBICIDE
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PRO-MATE® BARRICADE® 0.435% PLUS FERTILIZER

ACTIVE INGREDIENT:

Prodiamine¹0.435%

OTHER INGREDIENTS:.....99.565%

TOTAL:.....100.000%

¹ [CAS No. 29091-21-2]

For selective preemergence control of grass and broadleaf weeds in:
 established turf grasses (excluding golf course putting greens) and lawns

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See the following sections, **Precautionary Statements, Hazards to Humans and Domestic Animals**, for additional information.

EPA Reg. No. 5905-536

EPA Est. No.: First letters of batch code indicate producing establishment:

5905-NC-018 = RNC; 5905-FL-013 = FP;

5905-NM-003 = MNM; 5905-NE-009= LN

AD 090210

Net Contents:

**MANUFACTURED FOR
 HELENA AGRI-ENTERPRISES, LLC
 225 SCHILLING BOULEVARD, SUITE 300
 COLLIERVILLE TENNESSEE 38017**



PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact while handling the material may cause allergic reactions in some individuals.

FIRST AID
IF ON SKIN OR CLOTHING:
<ul style="list-style-type: none">▪ Take off contaminated clothing.▪ Rinse immediately with plenty of water for 15-20 minutes.▪ Call a poison control center or doctor for treatment advice.
IF IN EYES:
<ul style="list-style-type: none">▪ Hold eye open and rinse slowly and gently with water for 15-20 minutes.▪ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.▪ Call a poison control center or doctor immediately for advice.
IF INHALED:
<ul style="list-style-type: none">▪ Move victim to fresh air.▪ If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth if possible.▪ Call a poison control center or doctor immediately for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment wash water.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

If material is spilled: Contain and sweep up material of spill for disposal or use per label instructions. Wash cleanup equipment to prevent contamination elsewhere. Excess quantities above normal application rates could result in damage to plants subject to spill. Water-in remainder, disc under, cover with layer of soil, or leave exposed to sunlight, as deemed appropriate to the situation.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE

Store in original container away from other fertilizer, feed, or food stuffs and separated from other pesticides.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Nonrefillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Not for use on plants being grown (1) for sale or other commercial use, (2) for commercial seed production, or (3) for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in parks, golf courses or lawns and grounds.

This product is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

- Established turf grasses (excluding golf course putting greens) and lawns.

This product controls susceptible weeds by inhibiting weed seed germination and root development. Most effective weed control will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1-2 inches) incorporation, prior to weed seed germination and within 14 days following application.

WEED RESISTANCE MANAGEMENT

For resistance management, Pro-Mate Barricade 0.435% Plus Fertilizer is a Group 3 Herbicide. Any weed population may contain or develop plants naturally Resistant to Pro-Mate Barricade 0.435% Plus Fertilizer and other Group 3 Herbicides. The resistant biotypes may dominate the weed population if these Herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- rotate the use of Pro-Mate Barricade 0.435% Plus Fertilizer or other Group 3 Herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- if a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

- for further information or to report suspected resistance, contact Helena Agri-Enterprises at 901-761-0050 or at www.helenaagri.com

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

APPLICATION DIRECTIONS

Apply uniformly with suitable, calibrated application equipment.

Established Turf

This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of this product that may be applied per year is given for each turf grass species in the **Maximum Annual Rates** section of this label.

Most effective weed control in turf grasses will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See the map below for approximate crabgrass seed germination dates.

Crabgrass Seed Germination Dates Approximate Date



Use Precautions: The following precautions apply to the use of this product in turf grasses and lawns:

1. Do not graze or feed livestock forage cut from areas treated with this product.
2. Do not use on food producing plants.
3. Do not apply this product through any type of irrigation system.
4. Do not apply aerially.
5. Do not apply to golf course putting greens.
6. Application of this product may thin emerged annual bluegrass and newly overseeded grasses.
7. Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.
8. Do not cut (harvest) treated sod before 120 days after application. Do not apply to newly set sod until the following year.
9. Application of this product to turf stressed by drought, low fertility, or pest damage may result in turf injury.
10. Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.
11. Do not apply this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species.

Rates of Application

This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds. This product will not control established weeds.

Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by this product is related to the rate applied.

Maximum Annual Rates

This product is recommended for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

Maximum Application Rate of This Product/Calendar Year by Turf Grass Species¹

Turf Species	Lbs. Product/A	Lbs./1000 ft ²
Bermudagrass ² , Bahagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type) Zoysia	345	7.92
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	230	5.28
Creeping Red Fescue	172	3.96
Creeping Bentgrass	150	3.46

¹These are the maximum rates per calendar year by species limitations.

²May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 120 lbs./A. Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass, and Rescuegrass due to reduced product rates used in sprigging situations.

- Do not apply more than 345 lbs./A (1.5 lb. A/A) of this product per calendar year.
- Use higher rates of this product to achieve higher levels of weed control for each turf type, but do not exceed the maximum application rates specified in the **Maximum Annual Rates Table**.

Weeds Controlled

When used in accordance with this label, this product will provide control of the following weeds:

Barnyardgrass	Kochia
Bluegrass, Annual (Poa annua)	Lambsquarter, Common
Carpetweed	Lovegrass
Chickweed, Common	Panicum (Texas, Fall, Browntop)
Chickweed, Mouseear (from seed)	Pigweed
Crabgrass (Large, Smooth)	Purslane, Common
Crowfootgrass	Pusley, Florida
Cupgrass, Woolly	Rescuegrass ³
Foxtails, Annual	Shepherd's Purse ²
Goosegrass ¹	Signalgrass, Broadleaf
Henbit	Speedwell, Persian
Itchgrass	Sprangletop
Johnsongrass (from seed)	Spurge, Prostrate
Junglerice	Witchgrass
Knotweed	Woodsorrel, Yellow (from seed)

¹In many areas a single application of 175-345 lbs./A of this product will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained by making an initial application of 175-230 lbs./A followed after 60-90 days by a second application at doses that would not exceed those given in the **Maximum Annual Rates Table**. Do not exceed the maximum rate for turf grass species listed in the **Maximum Annual Rates Table** above.

²Applications for this weed should be made in late summer, fall, or winter prior to germination.

³Suppression only.

Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rates recommended for each turf species. All applications must be made prior to germination of the weed seeds.

When to Apply After Overseeding Turf

Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

When to Overseed After Application

This product will inhibit the germination of turf species if overseeded too soon after application. Follow rates and intervals in the table below for best overseeding/reseeding results.

This Product Rate (lbs./A)	Months Before Overseeding		
	North	Transition	South
115	4	4	4
151	5	4	4
172	6	5	5
184	--	6	6
230	--	7	7
262	--	--	9
299	--	--	10
345	--	--	12

CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Agri-Enterprises, LLC (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Agri-Enterprises, LLC's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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BARRICADE® is a registered trademark of Syngenta.

PRO-MATE® is registration trademark of Helena Holding Company.

X-X-X

GUARANTEED FERTILIZER ANALYSIS

TOTAL NITROGEN (N)*X.XX%

X.XX % Ammoniacal Nitrogen

AVAILABLE PHOSPHATE (P₂O₅)X.XX%

SOLUBLE POTASH (K₂O)X.XX%

Derived from: xxxxxxxx, xxxxx, xxxxx.

Chlorine (Cl) Max.X.XX%

*x.xx% Slowly Available Nitrogen from polycoated sulfur coated urea.